Airbus Industrie Flight Safety

Future Direction For GAIN

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Airbus Industrie

What Is The Future Role Of GAIN?

- How should GAIN develop?

- What should its goals be?

- How do we get there from here?

- The following Airbus Industrie perspective is based on the early results of our data sharing experience.

Initial Results

- The results from our Confidential Reporting System and the Aircrew Incident Reporting System have shown that Airbus Industrie and operators of its aircraft :

  - Can successfully and productively share information.

  - Can and will maintain confidentiality.

  - Can learn important lessons by sharing safety information.

- The progress achieved by the "Manufacturers Roundtable" has also proved that diverse interests can successfully share "Lessons Learned".

Initial Results

- ● However, the results of the CAST JSAT process have shown that data quality must be improved.

  - ▪ No standard definition of events across data sets.

  - ▪ No standard analysis methodology.

  - ▪ Wide disparity in data detail between reports.

  - ▪ Many of the data sets had to be eliminated due to lack of data necessary to support rigorous analysis.

- ● We have identified a similar situation with the first batches of data received in our Aircrew Incident Reporting System.

The Next Step Forward

- Obviously, to share information, one must have information available to be shared.

- So, first thing to do : a system to collect and analyze data has to be put in place.

- Significantly, many operators do not have an organized system for accomplishing this.

The Next Step Forward

- The next step forward is to assist operators in establishing an accident prevention function, if it is not currently in place.

  - Develop Standard Operating Procedures.

  - Establish the flight standards functions necessary to assure diligent adherence to commonly accepted good operating practices and procedures.

  - Implement a "Self-Audit" system.

  - Implement a DFDR information collection agreement.

  - Establish an internal Confidential Reporting System.

  - Participate in data sharing activities.

The Next Step Forward

- The GAIN Operator's Flight Safety Handbook is intended to foster and encourage these critical activities.

- BUT, the next step is :

  - A mentoring initiative needs to be established to assist operators in implementing data collection, analysis, and sharing processes.

The Second Step Forward

- The second step forward is to encourage the industry to establish effective methods for :

  - Sharing "Lessons Learned" between :

    - Manufacturers.

    - Operators.

    - Pilot and controller associations.

    - Regulatory authorities.

    - Investigation authorities.

  - Providing a high level of protection to :

    - The people involved.

    - The organizations involved.

    - The data provided.

A Reality Check

- The Airbus Industrie experience with confidential reporting strongly suggests that the second step will fail unless :

    - We crawl before we attempt to walk.

    - And we walk before we attempt to run.

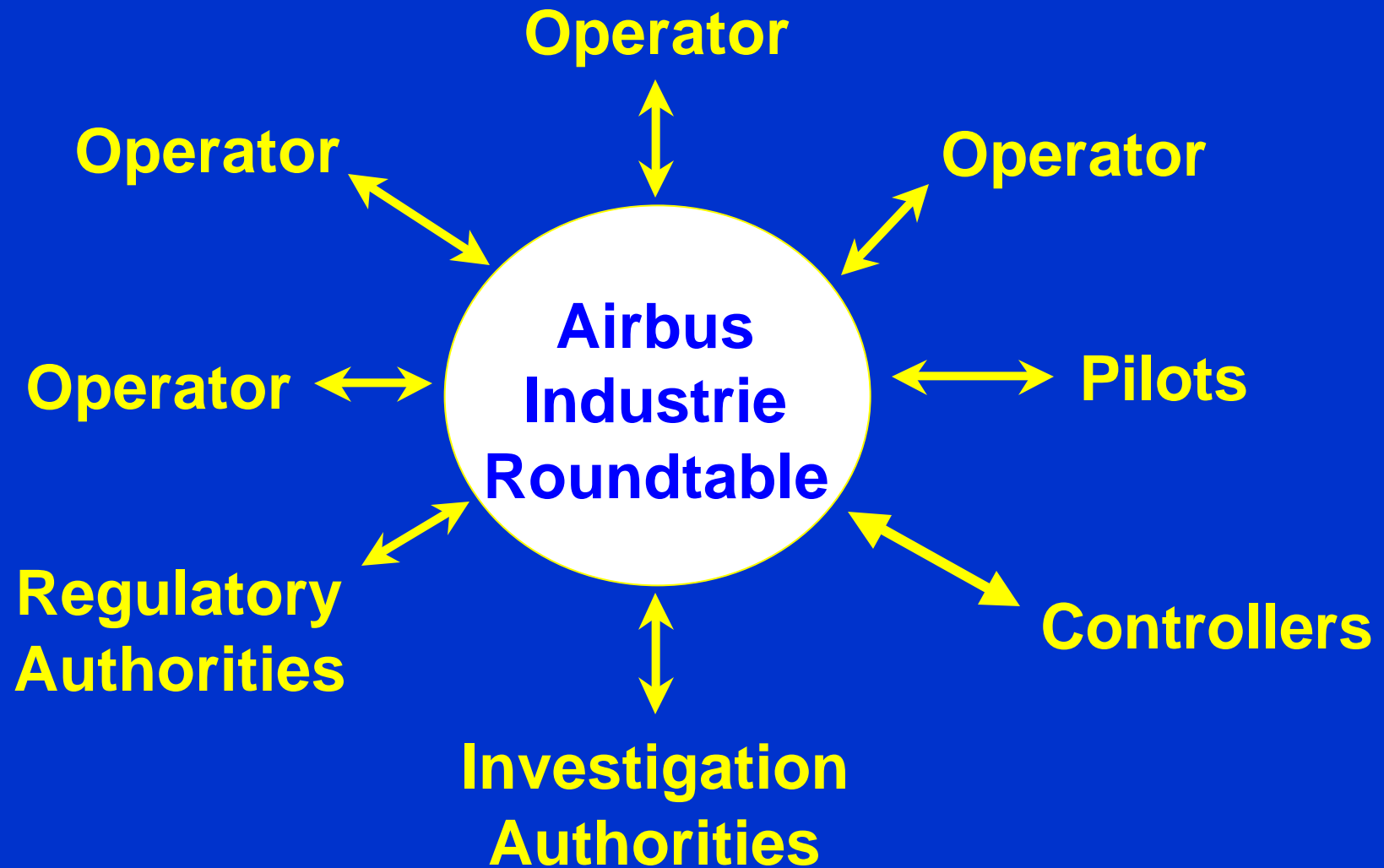## Grandiose and complex systems will surely fail

Critical Elements

- The following elements are essential to the success of any data sharing arrangement :

  - A very high level of trust must be established.

  - Data owners must have total control over what data is shared and with whom sharing occurs.

  - The system must be a confidential system.

    - Follow-up action must be possible.

    - Appropriate analysis must be conducted

    - The system must be focused on "Lessons Learned".

  - **Analysis is the "value added" product**.

  - New laws are required to protect participants.

    - Data cannot be used for commercial, legal or political purposes.

Crawl First

- Foster and encourage the establishment of small data sharing groups.

Crawl First

Operator

Operator

Operator

Operator

Airbus Industrie Roundtable

Pilots

Regulatory Authorities

Investigation Authorities

Controllers

Airbus Industrie

Then Walk

- Foster and encourage sharing between the small groups.

Manufacturer Round Table

Operator Round Table

Pilot Round Table

Regulatory Round Table

Airport Round Table

Investigation Round Table
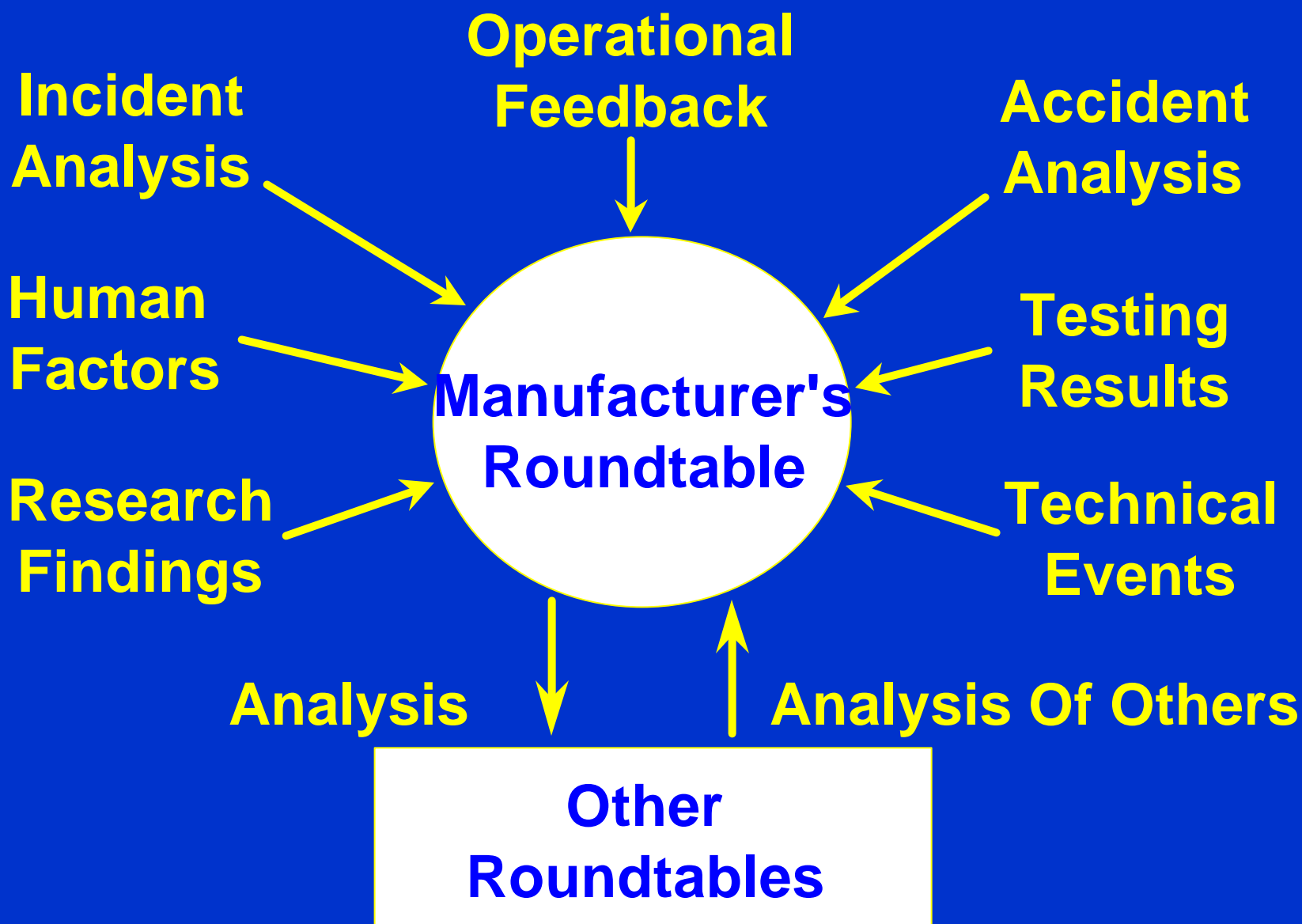
Controller Round Table

ATC Round Table

Airbus Industrie

Then Walk

Operational Feedback

Incident Analysis

Accident Analysis

Human Factors

Testing Results

Research Findings

Manufacturer's Roundtable

Technical Events

Analysis

Analysis Of Others

Other Roundtables

Then Run

Manufacturers Analyses

Operators Analyses

FAA JAA Etc

Pilot Analyses

Manufacturer Round Table

Operator Round Table

Pilot Round Table

Regulatory Round Table

AAIB BASI BEA CTSB NTSB Etc

Data Sharing Network

Airport Round Table

Investigation Round Table

Airport Operator Analyses

Controller Round Table

ATC Round Table

ATC Service Providers Analyses

Controller Analyses

14-15 June 2000

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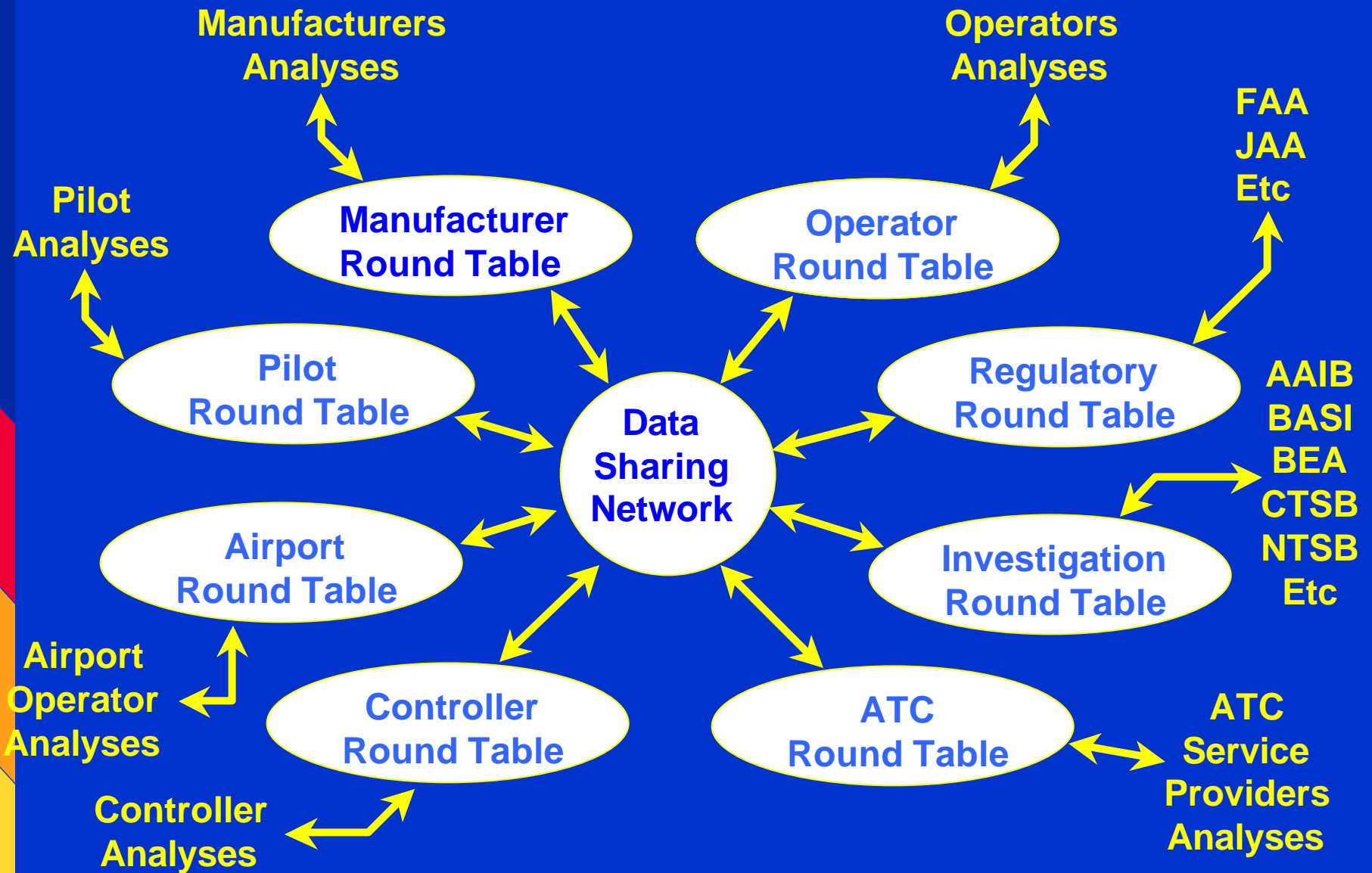
What GAIN Should Be

- GAIN must be focused on:

  - Concept promotion.

  - Fostering and encouraging means of protecting the participants and the data.

  - Facilitating development of data sharing standards.

  - Facilitating development of implementation guidelines.

  - Fostering and encouraging the establishment of data sharing groups.

  - Fostering and encouraging data sharing between groups.

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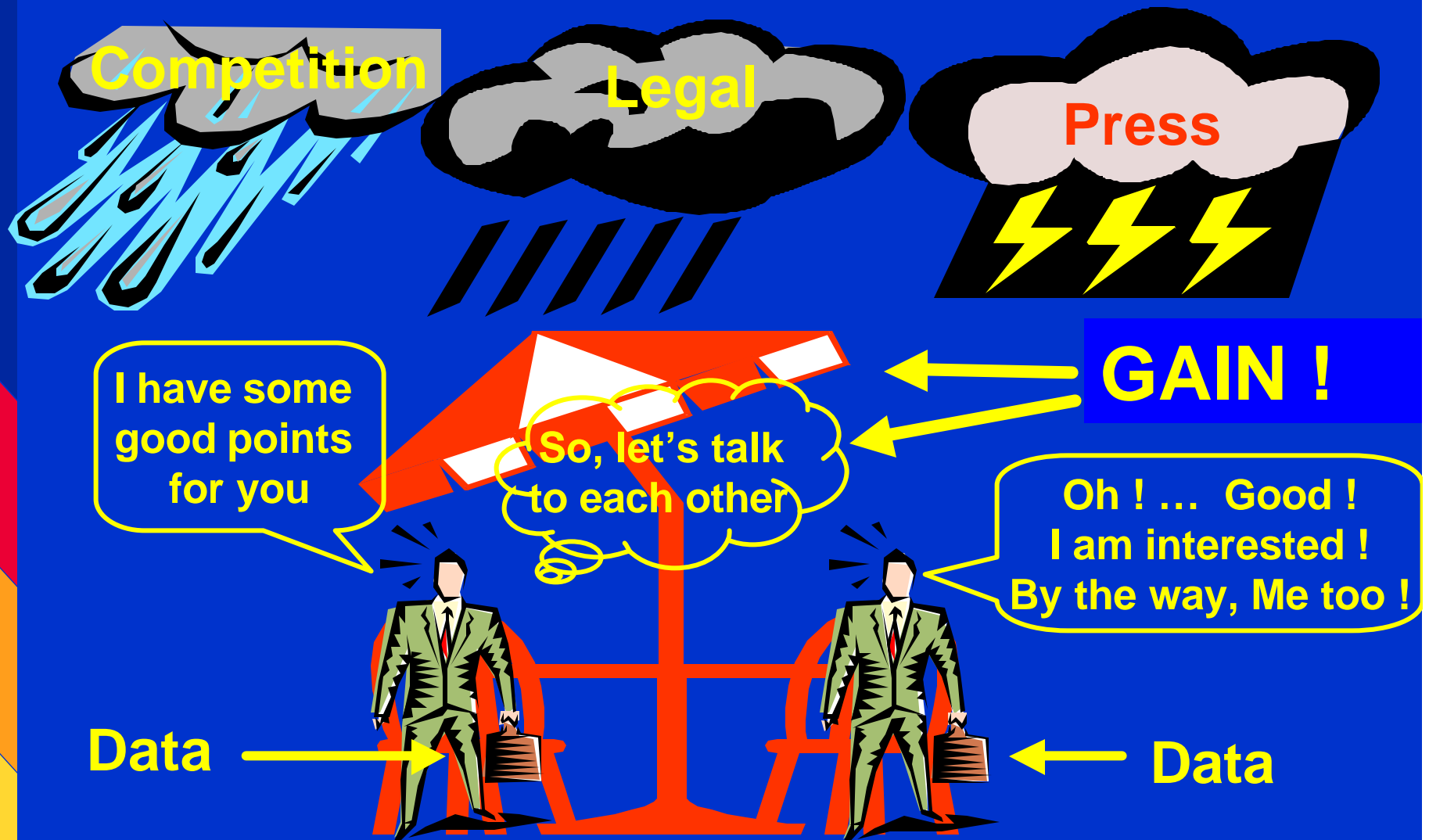
Thank You For Your Attention

Do You Have Any Questions ?